

SUBJECT INDEX TO THE MONTHLY WEATHER REVIEW.

JANUARY-DECEMBER, 1891.

(The names of places for which tables of observations are given will be found under Precipitation and Temperature.)

A.

- Alabama weather service, monthly reports..... Jan.-Dec. '91
 Annual summary, 1891 Suppl. Dec. '90, 319-327
 notable features of 1891; precipitation; floods; drought;
 frosts; temperature Suppl. Dec. '91, 320-321
 Arizona weather service, monthly reports..... Oct.-Dec. '91
 Arkansas weather service, monthly reports..... Jan.-Dec. '91
 Atmospheric electricity, some experiments by A. McAdie July '91, 171
 Atmospheric pressure (see Pressure).
 Auroras, monthly summary of observations..... Jan.-Dec. '91

B.

- Board of editors..... July-Dec. '91

C.

- California weather service, monthly reports Oct.-Dec. '91
 Cautionary signals, summary and verifications..... Jan.-Dec. '91
 Charts, depth of snow on ground at close of month... Jan.-March '91, ch. iv ;
 Oct.-Dec. '91, ch. vi
 depth of snowfall during month... Jan.-April '91, ch. v; May '91, ch. iv;
 Oct.-Dec. '91, ch. v
 ice limits in the North Atlantic Jan.-Dec. '91, ch. i
 isobars, isotherms, and winds..... Jan.-Dec. '91, ch. ii
 limits of freezing weather..... Jan.-May '91, ch. iv; Sept. '91, ch. ii;
 Oct.-Dec. '91, ch. v
 North Atlantic storm chart..... Jan.-Dec. '91, ch. i
 precipitation, monthly..... Jan.-Dec. '91, ch. iii
 tracks of areas of high pressure..... July-Dec. '91, ch. iv
 tracks of areas of low pressure..... Jan.-Dec. '91, ch. i
 annual summary : I. Isobars and winds; II. Annual mean
 temperature and departures; III. Maximum tempera-
 tures; IV. Minimum temperatures; V. Temperature
 ranges; VI. Annual precipitation; VII. Departures
 from annual precipitation Suppl. Dec. '91

- Cloudless days, number of, in monthly table of observations... Jan.-Dec. '91
 Cloudy days, number of, in monthly table of observations..... Jan.-Dec. '91
 Cold-wave signals, verifications of (see Verifications).
 Colorado weather service, monthly reports..... Jan.-Dec. '91
 Cold winter of 1890-'91 (see Europe).
 Cyclone, Martinique, August 18, 1891 Aug. '91, 185

D.

- Drought, monthly summary..... Jan., April-Dec. '91

E.

- Electrical phenomena, monthly summary..... Jan.-Dec. '91
 Europe, cold winter of 1890-'91..... Jan. '91, 6

F.

- Fires, prairie and forest..... April-May, July-Dec. '91
 Floods, monthly summary..... Jan.-Dec. '91
 annual summary of Suppl. Dec. '91, 320
 Arkansas March, June, Aug. '91
 Arizona Feb.-March '91
 California Feb.-March, June-July '91
 Colorado June '91, 143
 Connecticut Jan. '91, 14
 Georgia March, Aug. '91
 Illinois March-April, June '91
 Iowa June-July '91
 Kansas June '91, 143
 Kentucky Feb.-March '91
 Louisiana Feb.-May '91
 Massachusetts Jan. '91, 14
 Mississippi Feb.-May '91
 Missouri June-Aug. '91

Floods—Continued.

- Nebraska June, Aug. '91
 New England June '91, 14
 New Mexico May '91, 116
 New York Jan.-Feb., Aug. '91
 North Carolina Feb., Aug. '91
 Ohio Jan.-March '91
 Pennsylvania Jan.-Feb., Aug. '91
 South Dakota June-July '91
 Tennessee Jan.-April '91
 Texas May-June '91
 Virginia March, June, Aug. '91
 Washington Nov. '91
 West Virginia Feb., July '91
 Florida weather service, monthly reports..... Oct.-Dec. '91
 Fog, monthly summary, in North Atlantic storms..... Jan.-Dec. '91
 chart of North Atlantic belts..... Jan.-Dec. '91, ch. i
 Forecasts (see Verifications).
 Frost, summary of observations..... Jan.-Dec. '91
 annual summary of Suppl. Dec. '91, 320
 limits of freezing weather, summary Jan.-May, ch. iv; Sept., ch. ii;
 Oct.-Dec., ch. v

G.

- Georgia weather service, monthly reports Oct.-Dec. '91

H.

- Hailstorms, monthly summary of observations Jan.-Dec. '91
 Humidity, monthly summary, in monthly table of observations.. Jan.-Dec. '91

I.

- Ice, chart of limits of ocean ice in North Atlantic..... Jan.-Dec. '91, ch. i
 in rivers and harbors, monthly summary..... Jan.-Apr., Nov.-Dec. '91
 ocean, monthly summary of observations..... Jan.-Dec. '91
 Illinois weather service, monthly reports..... Jan.-Dec. '91
 Indiana weather service, monthly reports Jan.-Dec. '91
 Inland navigation Jan.-Dec. '91
 low water Aug.-Nov. '91
 Iowa weather and crop service, monthly reports Jan.-Dec. '91
 Introduction, data used in preparing Review..... Jan.-Dec. '91

K..

- Kansas weather service, monthly reports..... Jan.-Dec. '91
 Kentucky weather service, monthly reports Jan.-Dec. '91

L.

- Lightning, summary (see Local storms).
 Local weather signals (see Verifications).
 Louisiana weather service, monthly reports Jan.-Dec. '91

M..

- Martinique, cyclone August 18, 1891 Aug. '91, 185
 Maryland weather service, monthly reports May-Dec. '91
 Meteorological tables, annual summary: data from stations of
 the Weather Bureau; data from stations of voluntary
 observers Suppl. Dec. '91, 322-327
 Mexico, monthly data, in voluntary observers table..... Jan.-Dec. '91
 Michigan weather service, monthly reports Jan.-Dec. '91
 Military posts sending monthly reports, list published every
 three months March, June, Sept., and Dec., pp. i-x
 Minnesota weather service, monthly reports Jan.-Dec. '91
 Mississippi weather service, monthly reports March-Dec. '91
 Missouri weather service, monthly reports Jan.-Dec. '91
 Montana weather service, monthly reports Nov.-Dec. '91

N.

- Navigation, opening of March-April '91
 closing of Nov.-Dec. '91
 Nebraska weather service, monthly reports Jan.-Dec. '91
 Nevada weather service, monthly reports Jan.-Dec. '91
 New England meteorological society, monthly reports Jan.-Dec. '91
 New Jersey weather service, monthly reports Jan.-Dec. '91

New Mexico weather service, monthly reports.....	Sept.-Dec. '91	Rivers and harbors, monthly summary of reports	Jan.-Dec. '91
New York weather service, monthly reports.....	Jan.-Dec. '91	table of heights above low water and monthly ranges	Jan.-Dec. '91
North Atlantic (see Charts, Fog, Ice, Storms).		ice in, monthly summary.....	Jan.-Dec. '91
North Carolina weather service, monthly reports	Jan.-Dec. '91	low water (see Inland Navigation).	
North Dakota weather service, monthly reports	Aug.-Dec. '91		S.
North and South Dakota weather service, monthly reports....	Jan.-July '91	Sleet, monthly summary of observations.....	Jan.-May, Sept.-Dec. '91
	O.	Snow, monthly snowfalls, summary.....	Jan.-Apr., ch. v; May, ch. iv; June,
Ohio meteorological bureau, monthly reports.....	Jan.-Dec. '91	Aug.-Sept.; Oct.-Dec. '91, ch. v	
Oklahoma weather service, monthly report.....	Dec. '91	depth on ground at close of month, summary and chart... Jan.-Mar., ch.	
Oregon weather service, monthly reports	Jan.-Dec. '91	iv; Oct., Nov., Dec. '91, ch. vi	
	P.	State weather services, monthly reports:	
Partly cloudy days, in monthly table of observations	Jan.-Dec. '91	Alabama	Jan.-Dec. '91
Pennsylvania weather service, monthly reports	Jan.-Dec. '91	Arizona	Oct.-Dec. '91
Precipitation, summary of distribution.....	Jan.-Dec. '91, ch. iii	Arkansas.....	Jan.-Dec. '91
average for district and departures from normal, in monthly table of observations	Jan.-Dec. '91	California	Oct.-Dec. '91
excessive, Taunton, Mass., 1843-1890	June '91, 152	Colorado.....	Jan.-Dec. '91
table giving monthly rainfall of 10 inches or more; 2.50 inches, or more, in 24 hours; and 1 inch in 1 hour.....	Jan.-Dec. '91	Florida	Oct.-Dec. '91
table giving the heaviest rainfall for periods of 5 and 10 minutes and 1 hour.....	Jan.-Dec. '91	Georgia	Oct.-Dec. '91
monthly table of observations, Signal Service observers ..	Jan.-June '91	Illinois.....	Jan.-Dec. '91
monthly table of observations, Weather Bureau observers	July-Dec. '91	Indiana	Jan.-Dec. '91
monthly table of observations, voluntary observers.....	Jan.-Dec. '91	Iowa weather and crop service.....	Jan.-Dec. '91
table of deviations from the average at voluntary stations..	Jan.-Dec. '91	Kansas	Jan.-Dec. '91
year of greatest precipitation	July-Dec. '91	Kentucky	Jan.-Dec. '91
year of least precipitation	July-Dec. '91	Louisiana	Jan.-Dec. '91
annual summary: general remarks; excessive precipita- tion; absolute excessive precipitation; deficiencies in precipitation, and notable features in 1891... Suppl. Dec. '91, 320-321		Maryland	May-Dec. '91
Precipitation tables for long periods:		Michigan.....	Jan.-Dec. '91
<i>District of Columbia</i> : Washington, monthly and annual, 1824-1890	March '91, 76	Minnesota.....	Jan.-Dec. '91
<i>Florida</i> : Fort Brooke, monthly and annual, 1840-1882 ..	Jan. '91, 22	Mississippi	March-Dec. '91
Punta Rassa, monthly and annual, 1871-1888	May '91, 126	Missouri.....	Jan.-Oct., Dec. '91
<i>Georgia</i> : Atlanta, monthly and annual, 1859-1890.....	March '91, 76	Montana	Nov.-Dec. '91
<i>Indiana</i> : Vevay, monthly and annual, 1865-1890.....	March '91, 75	Nebraska	Jan.-Dec. '91
<i>Maine</i> : Orono, monthly and annual, 1878-1890.....	Jan. '91, 22	Nevada	Jan.-Dec. '91
<i>New Hampshire</i> : Hanover, monthly and annual, 1872- 1890	April '91, 100	New England Meteorological Society	Jan.-Dec. '91
<i>North Carolina</i> : Asheville, monthly and annual, 1857- 1890	May '91, 125	New Jersey	Jan.-Dec. '91
Attaway Hill, monthly and annual, 1862-1890	May '91, 126	New Mexico	Sept.-Dec. '91
<i>Ohio</i> : Cincinnati, monthly and annual, 1835-1890.....	Feb. '91, 50,	New York	Jan.-Dec. '91
<i>Texas</i> : Austin, monthly and annual, 1861-1890	May '91, 125	North Carolina	Jan.-Dec. '91
<i>Vermont</i> : Strafford, monthly and annual, 1873-1890.....	Jan. '91, 22	North and South Dakota.....	Jan.-July '91
<i>Virginia</i> : Fort Monroe, monthly and annual, 1886-1890..	Feb. '91, 50	North Dakota	Aug.-Dec. '91
Predictions for 24, 48, and 72 hours in advance.....	Jan.-Dec. '91	Ohio	Jan.-Dec. '91
Pressure, monthly summary	Jan.-Dec. '91	Oklahoma.....	Dec. '91
annual summary: general distribution	Suppl. Dec. '91, 319	Oregon	Jan.-Dec. '91
low areas, monthly summary and chart.....	Jan.-Dec. '91, ch. i	Pennsylvania	Jan.-Dec. '91
high areas, monthly summary.....	Jan.-Dec. '91; July-Dec., ch. iv	South Carolina	Jan.-Nov. '91
monthly barometric ranges.....	Jan.-Dec. '91	South Dakota.....	Aug.-Dec. '91
departure from normal	Jan.-Dec. '91	Tennessee.....	Jan.-Dec. '91
comparison of means of 8 a. m. and 8 p. m. observations with means of hourly observations.....	Jan.-June, '91	Texas	Jan.-Dec. '91
comparison of barometric means with those of previous month.....	Jan.-Dec. '91	Utah	Sept.-Dec. '91
chart of isobars, isotherms, and winds	Jan.-Dec. '91, ch. ii	Virginia	July-Dec. '91
table of maximum pressure change and maximum abnormal temperature change in 12 hours and maximum wind- velocity	Jan.-Dec. '91	Washington	July-Dec. '91
table giving the approximate velocity of storms during the past 19 years	March, May '91	West Virginia	Oct.-Dec. '91
	R.	Wisconsin.....	Jan.-Dec. '91
Rainy days, number of, in monthly table of observations.....	Jan.-Dec. '91	Wyoming	Oct.-Dec. '91
		Storms, monthly summary, in Areas of low pressure.....	Jan.-Dec. '91
		chart of tracks	Jan.-Dec., ch. i
		North Atlantic, summary and chart.....	Jan.-Dec., ch. i
		North Atlantic storms compared with corresponding	
		months of previous years	Jan.-Dec. '91
		local, monthly summary, in Winds.....	Jan.-Dec. '91
		November 23, 1891	Nov. '91, ch. vii, 263, 274
		(See Hailstorms and Thunderstorms.)	
		Sun spots, monthly summary of observations.....	Jan.-June '91
		Saint Christophers Island, W. I., heavy rainfall, Jan., 1880 ...	Jan. '91, 9
		T.	
		Temperature, monthly summary.....	Jan.-Dec. '91
		chart of isobars, isotherms, and winds.....	Jan.-Dec. '91, ch. ii
		average for districts as compared with normal.....	Jan.-Dec. '91
		range of, monthly summary.....	Jan.-Dec. '91

Temperature—Continued.

mean, with normal and departures, in monthly table of observations.....

Jan.-Dec. '91

deviation from normal, monthly summary.....

Jan.-Dec. '91

table of greatest daily ranges, monthly

Jan.-Dec. '91

maximum and minimum, monthly table of observations...

Jan.-Dec. '91

table of comparative max. and min. monthly.....

Jan.-Dec. '91

monthly table of observations, Signal Service observers...

Jan.-June '91

monthly table of observations, Weather Bureau observers..

July-Dec. '91

monthly table of observations, voluntary observers

Jan.-Dec. '91

annual summary: general remarks; deviation from nor-

mal temperatures; maximum and minimum tempera-
tures; yearly ranges and notable features of 1891

Suppl. Dec. '91, 319, 320

normal, tables May '81, ch. v; June '91, ch. iv

periods of high temperature..... Jan.-Dec. '91

periods of low temperature

Jan.-Dec. '91

years of highest mean temperature

July, Sept.-Dec. '91

years of lowest mean temperature

July, Sept.-Dec. '91

fluctuation of temperature and pressure at base and sum-

mit of Mount Washington, by Prof. H. A. Hazen.....

Temperature tables for long periods:

District of Columbia: Washington, monthly and annual means, 1820-1890

March '91, 76

Florida: Punta Rassa, monthly and annual means, 1871-1883.....

May '91, 126

Georgia: Atlanta, monthly and annual means, 1859-1890.

March '91, 76

Indiana: Vevay, monthly and annual means, 1864-1890..

March '91, 75

Massachusetts: New Bedford, monthly and annual means, 1813-1890

May '91, 126

Michigan: Kalamazoo, monthly and annual means, 1876-1890

April '91, 100

Thornville, monthly and annual means, 1877-1890...

April '91, 100

New Hampshire: Hanover, monthly and annual means, 1872-1890.....

April '91, 100

North Carolina: Attaway Hill, monthly and annual means, 1861-1877.....

April '91, 100

Temperature tables for long periods—Continued.

Lenoir, monthly and annual means, 1871-1890..... Jan. '91, 22

Southport, monthly and annual means, 1822-1890 ... Jan. '91, 22

South Carolina: Aiken, monthly and annual means, 1856-1890..... March '91, 75

Tennessee: Nashville, monthly and annual means, 1843-1890 June '91, 152

Tennessee weather service, monthly reports..... Jan.-Dec. '91

Texas weather service, monthly reports..... Jan.-Dec. '91

U.

Utah weather service, monthly reports Sept.-Dec. '91

V.

Verifications, forecasts, for 24, 48, and 72 hours in advance... Jan.-Dec. '91

cautionary signals..... Jan.-Dec. '91

cold-wave signals Jan.-March, Nov.-Dec. '91

percentage of forecasts verified..... Jan.-Dec. '91

local forecasts Jan.-May '91

Virginia weather service, monthly reports..... July-Dec. '91

Voluntary stations and observers, list of names..... March, June, Sept., Dec., pp. i-x

W.

Washington weather service, monthly reports July-Dec. '91

Weather, characteristics of..... Jan.-Dec. '91

West Indies, monthly data, in meteorological record of voluntary observers Jan.-Dec. '91

West Virginia weather service, monthly reports..... Oct.-Dec. '91

Winds, monthly summary..... Jan.-Dec. '91

prevailing direction Jan.-Dec. '91, ch. ii

high velocities, monthly summary Jan.-Dec. '91

table of monthly movement, prevailing direction, and maximum velocity, in monthly tables of observations... Jan.-Dec. '91

Wisconsin weather service, monthly reports Jan.-Dec. '91

Wyoming weather service, monthly reports Oct.-Dec. '91